

## Exam Revision Yr 8.

1. The sum of 6 and 9 \_\_\_\_\_.
2. The difference of 22 and 4 \_\_\_\_\_.
3. The product of 6 and 5 \_\_\_\_\_.
4. The quotient of 36 and 3 \_\_\_\_\_.
5. Evaluate the following.

a) $7 + 9 =$	f) $8 - 9 =$
b) $7 + -9 =$	g) $10 - -6 =$
c) $-11 + 4 =$	h) $12 - 4 =$
d) $-13 + -6 =$	i) $-15 - 6 =$
e) $-15 + 21 =$	j) $-15 - -7 =$

### 6. Evaluate the following.

a) $6 \times 10 =$	(e) $24 \div 3 =$
b) $7 \times -4 =$	(f) $-36 \div 9 =$
c) $-8 \times 6 =$	(g) $40 \div -8 =$
d) $-9 \times -2 =$	(h) $-48 \div -4 =$

### 7. Evaluate the following

(a) $\frac{36}{-9} =$	(b) $\frac{-42}{-6} =$
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### 8. Place in ascending (smallest to biggest) order.

a)  $0, -3, 9, -6, -9, 2$

b)  $5\frac{1}{2}, 5.25, 0.525, 5\frac{3}{4}, 5.05, 5\frac{1}{5}$

### 9. Simplify the Repeating Decimal.

a) $0.333... =$	b) $0.919191... =$
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10. Solve the following (calculator allowed)

a)  $4^2 =$

d)  $\sqrt{36} =$

b)  $3^4 =$

e)  $4\sqrt{256} =$

c)  $10^5 =$

f)  $^{10}\sqrt{1024} =$

11. Write in index form:

a)  $c \times c \times c =$

c)  $m \times n \times m \times n \times m =$

b)  $6 \times a \times a \times a \times a =$

d)  $5 \times m \times m \times 4 \times n \times n \times n =$

12 Write in Expanded form:

a)  $e^5 =$

c)  $a^4 b^3 =$

b)  $3^4 f^5 =$

d)  $5^2 g^4 =$

13 Basic Numeral (answer) for the following is:

a)  $2^4 =$

d)  $4^3 \times 2^4 =$

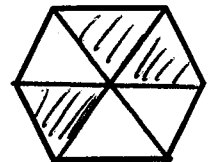
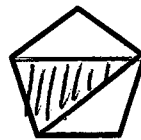
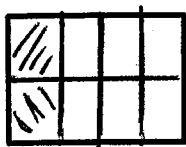
b)  $3^5 =$

e)  $5^3 =$

c)  $2^8 =$

f)  $4^{1/2} =$

14 What percentage is the following Shapes shaded



Answers :  $33\frac{1}{3}\%$ ,  $25\%$ ,  $80\%$ ,  $75\%$

15. Percentage means \_\_\_\_\_.

16. Percentage change to  $\left\{ \begin{array}{l} \text{Fraction} \\ \text{Decimal} \end{array} \right.$  \_\_\_\_\_.

17.  $\left\{ \begin{array}{l} \text{Fraction} \\ \text{Decimal} \end{array} \right.$  change to a Percentage \_\_\_\_\_.

18. Change the Percentage to a fraction (simplest)

a)  $13\% =$

d)  $10\frac{1}{2}\% =$

b)  $20\% =$

e)  $45\frac{3}{4}\% =$

c)  $64\% =$

f)  $1.5\% =$

19. Change the Percentage to a decimal.

a)  $17\% =$

d)  $9.5\% =$

b)  $26\% =$

e)  $11.25\% =$

c)  $3\% =$

f)  $105\% =$

20. Change the Fraction or decimal to a Percentage

a)  $\frac{37}{100} =$

e)  $0.2 =$

b)  $\frac{4}{5} =$

f)  $0.05 =$

c)  $2\frac{1}{4} =$

g)  $1.7 =$

d)  $\frac{7}{8} =$

h)  $0.95 =$

21. 45% buy food from the school canteen. How many teachers do not?

22. In a class of 25, there are 16 girls. what percentage of the class is

a) girls?

b) boys?

23. a) Express 40 as a percentage of 50.

b) Express 32 as a percentage of 80.

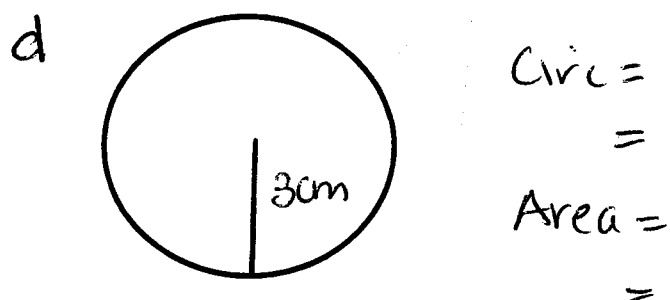
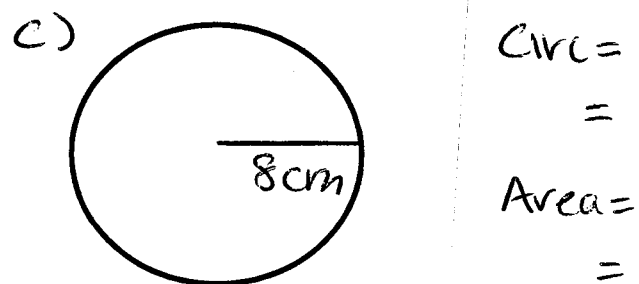
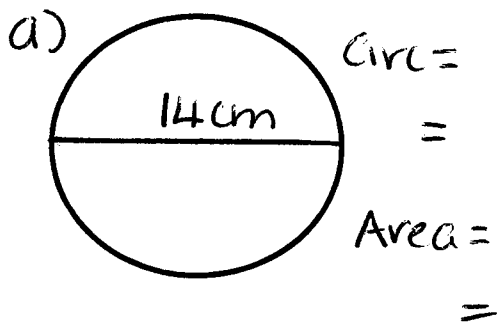
c) Express 60 as a percentage of 50.

24. Calculate the circumference and area for each circle.

Circumference of a Circle = \_\_\_\_\_ x \_\_\_\_\_

or \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_

Area of a Circle = \_\_\_\_\_



# Algebra

25. Write these expressions without division signs, multiplication signs or brackets.

(a)  $4 \times d =$

f)  $7 \times f \div (8 \times g)$

(b)  $5 \times a \times b =$

g)  $4 \times h \times j - k \times 8 \times m$

(c)  $6 \div a =$

h)  $6 - a \times b =$

(d)  $c \div 7 =$

i)  $(7 - c) \div 9 =$

(e)  $3 \times d - 5 \times e =$

j)  $(10 \times a - 3) \div c =$

26. Substitute  $a = 5$ ,  $c = 3$ ,  $d = 2$

a)  $a + c =$

b)  $a + c + d =$

c)  $ac =$

d)  $acd =$

e)  $\frac{acd}{10} =$

f)  $4a + 2c + 3d =$

g)  $\frac{ac}{d} =$